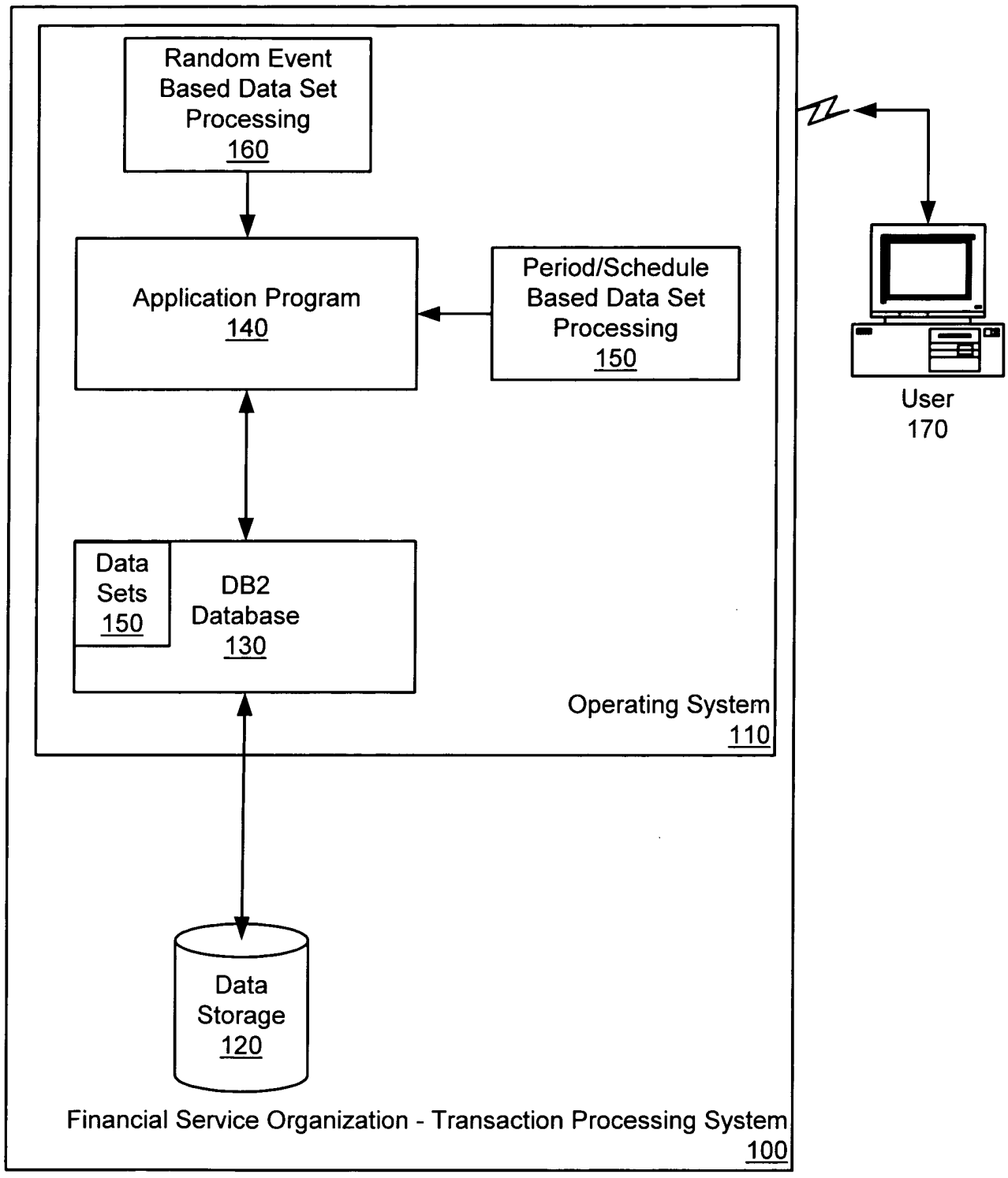

Prior Art

Figure 1

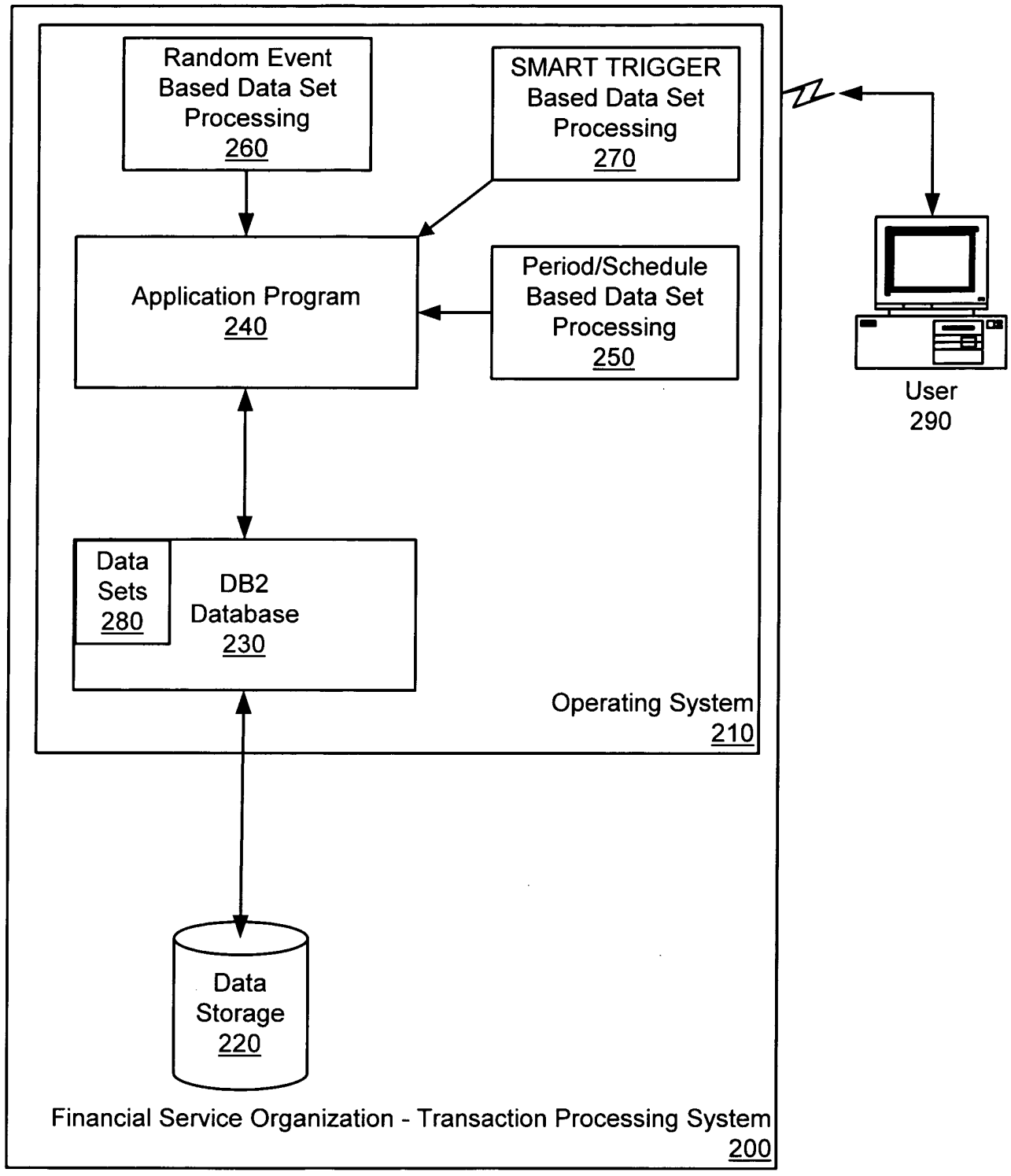
Random Event Based Data Set Processing 260
SMART TRIGGER Based Data Set Processing 270
Application Program 240
Period/Schedule Based Data Set Processing 250
Data Sets 280
DB2 Database 230
Operating System 210
Data Storage 220
Financial Service Organization - Transaction Processing System 200
User 290

Figure 2

Account Data Set Pointer 310	Scheduled Date 320	Activity Number 330	Activity Data 340
P1	12/31/1999	A12345	123abc000xyz
.....	.....	.....	.....

Activity Number 330	Processing Task Number 350	Processing Task Data 360
12345	T1	123abc000xyz

Processing Task Number 350	Executable Processing Task Name 370
T1	P_PROC_DATE

Figure 3a

Todays Date 380	Scheduled Date 320	Account Data Set Pointer List 310
12/31/1999	12/31/1999	A12345
.....	.....	.....
.....	.....	A12399

Figure 3b

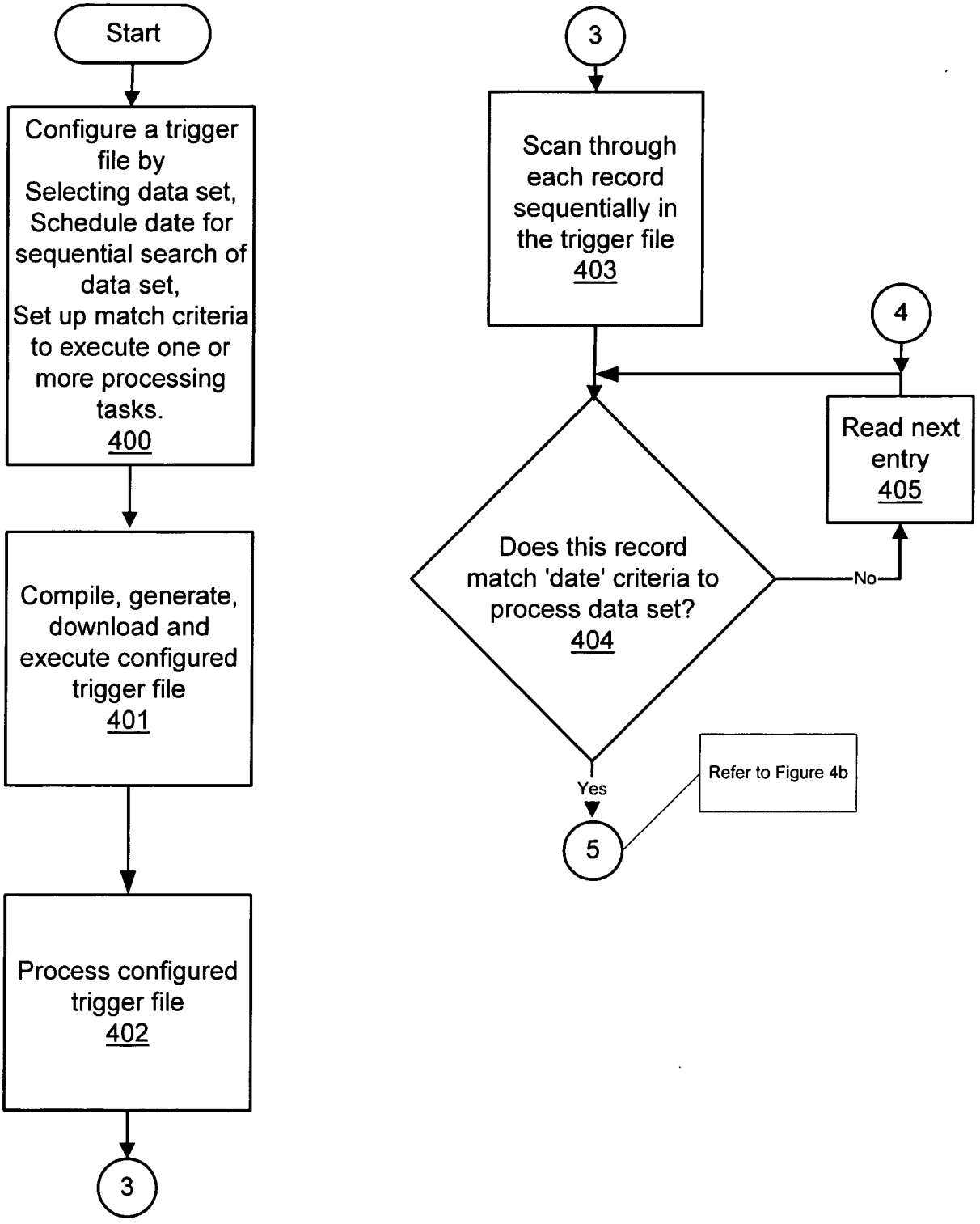

Figure 4a

PRIOR ART

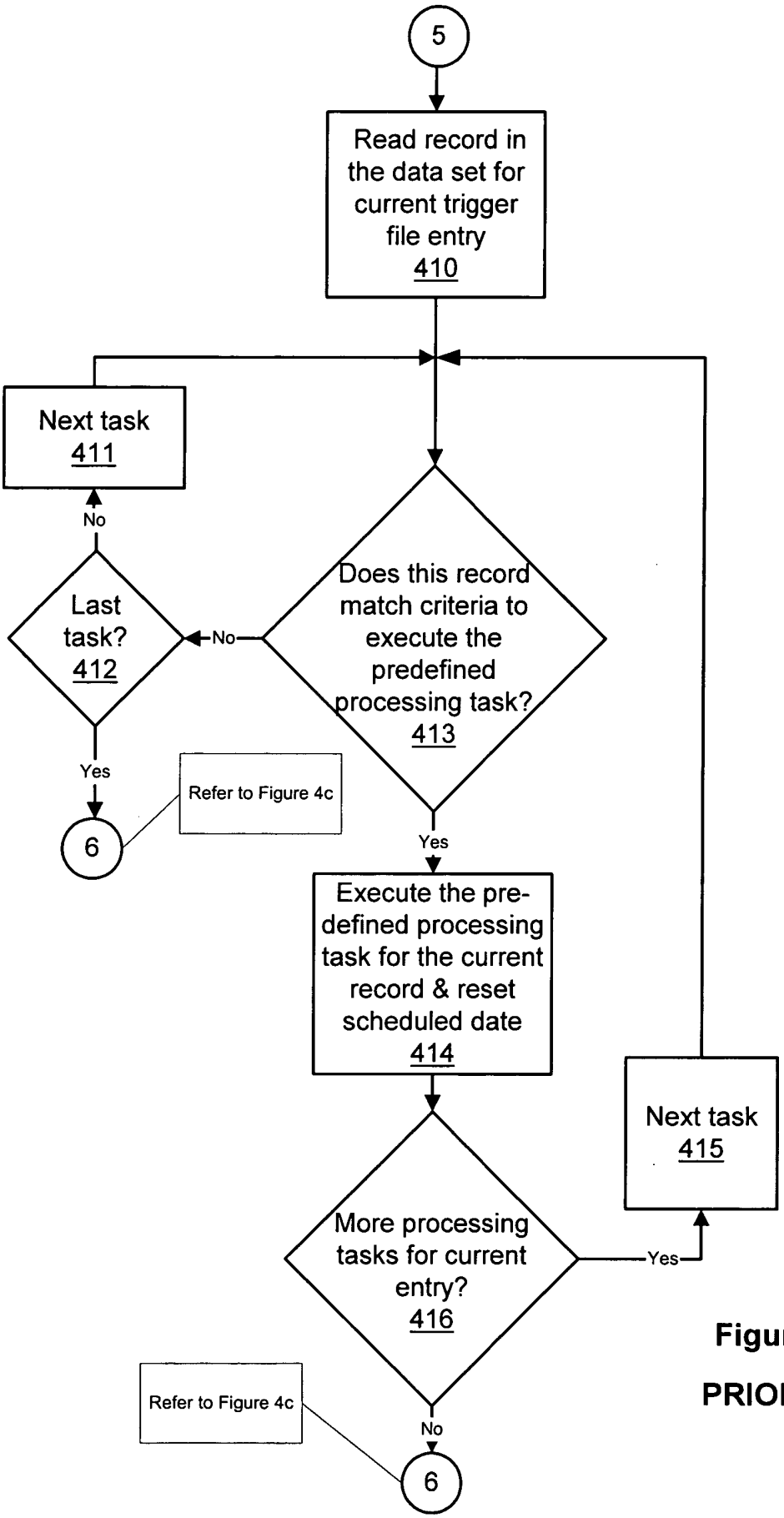

Figure 4b

PRIOR ART

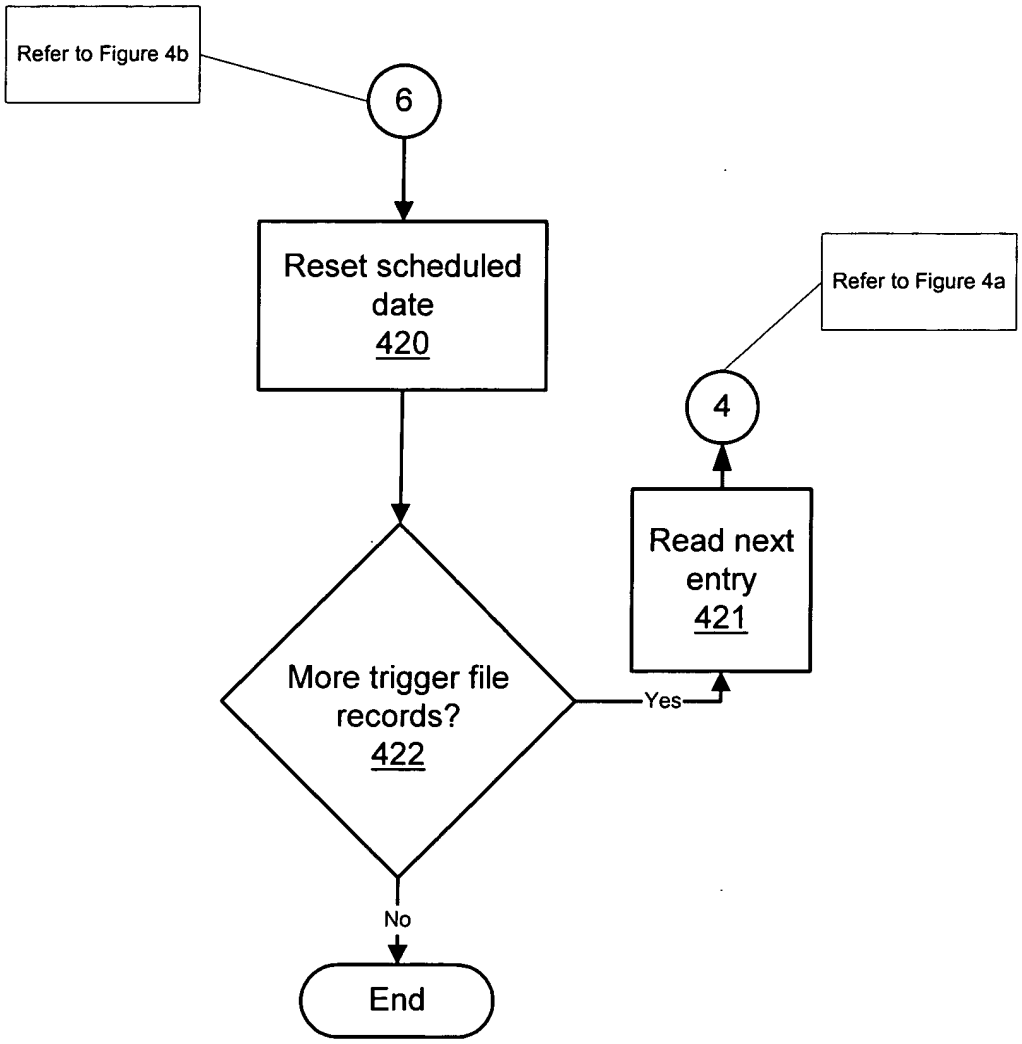

Figure 4c

PRIOR ART

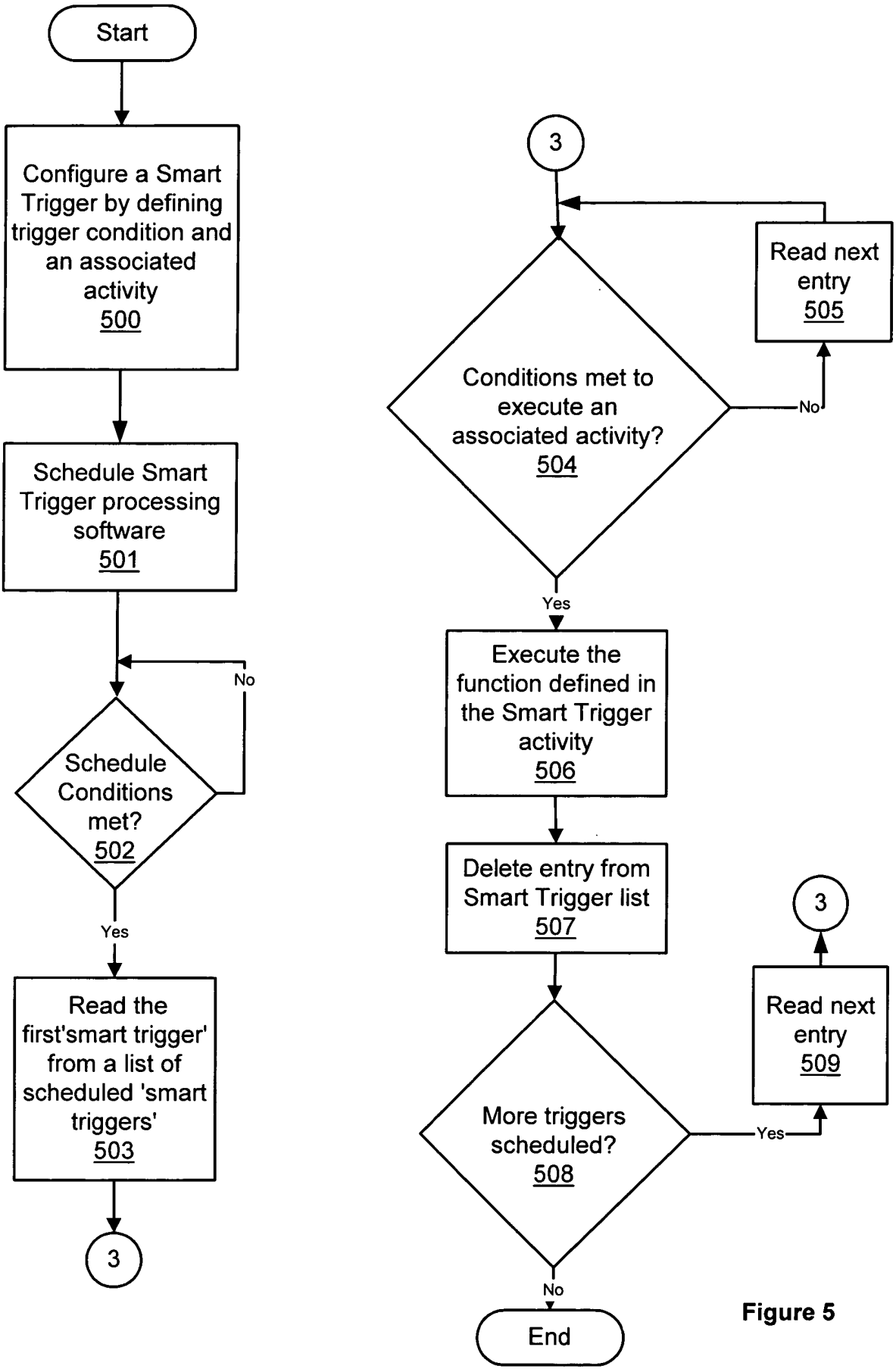
Start
Configure a Smart Trigger by defining trigger condition and an associated activity
500
Schedule Smart Trigger processing software
501
Schedule Conditions met?
502
No
Yes
Read the first'smart trigger' from a list of scheduled 'smart triggers'
503
3
3
Conditions met to execute an associated activity?
504
No
Read next entry
505
Yes
Execute the function defined in the Smart Trigger activity
506
Delete entry from Smart Trigger list
507
More triggers scheduled?
508
Yes
Read next entry
509
No
End

Figure 5

Data Set Record Pointer 600	Data Set Record Data Column 1 610	Data Set Record Data Column N 620	List of Processing Tasks 630
P1	R11	R1N	T1 ..... TN
....	.....	.....	.....
PN	RN1	RNN	T1 ..... TN

Current Data Set Record Pointer 640	Current Processing Task 650	Next Processing Task 660
P1	T3	T4
.....	T5	T6
PN	T(N-1)	TN

Figure 6
PRIOR ART

Current Data Set Record Pointer 700	Processing Task Number 710
P2	T1
P5	T1
PN	T1

Current Data Set Record Pointer	Processing Task Number
P1	T2
P3	T2
PN	T2

Current Data Set Record Pointer	Processing Task Number
P7	T(N-1)
P11	T(N-1)
PN	T(N-1)

Current Data Set Record Pointer	Processing Task Number
P4	TN
P9	TN
PN	TN

Figure 7

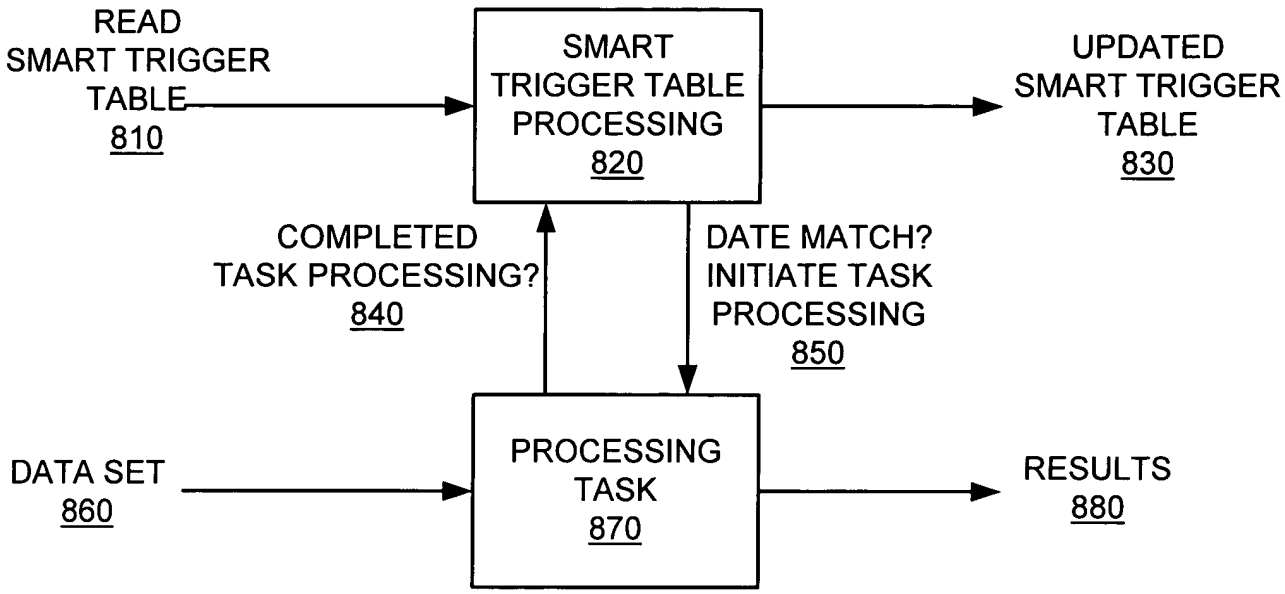
READ
SMART TRIGGER
TABLE
810
SMART
TRIGGER TABLE
PROCESSING
820
UPDATED
SMART TRIGGER
TABLE
830
COMPLETED
TASK PROCESSING?
840
DATE MATCH?
INITIATE TASK
PROCESSING
850
DATA SET
860
PROCESSING
TASK
870
RESULTS
880

Figure 8